

Product Information

ANTI-SHEEP IgG (WHOLE MOLECULE) PEROXIDASE CONJUGATE Antibody developed in Donkey Affinity Isolated Antigen Specific Antibody

Product No. **A 3415**

Product Description

Antiserum is developed in donkey using purified sheep IgG as the immunogen. Antibody is isolated from donkey anti-sheep IgG antiserum by immunospecific purification which removes essentially all donkey serum proteins, including immunoglobulins that do not specifically bind to sheep IgG. Donkey anti-sheep IgG is conjugated to Sigma Horseradish Peroxidase, Type VI by a modification of the periodate method of Wilson and Nakane.¹ The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with preservative.

Specificity

Specificity of Peroxidase Conjugated Anti-Sheep IgG is determined by Enzyme Linked Immunosorbent Assay (ELISA).

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-horse IgG and anti-donkey whole serum results in single arcs of precipitation.

Titer

A minimum titer of 1:10,000 is determined by Direct ELISA. Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 450 nm after 30 minutes of substrate conversion at 25 °C.² Microtiter plates are coated with purified sheep IgG at a concentration of 5 µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6 (Carbonate-Bicarbonate Buffer capsules are available as Product No. C 3041).

Substrate: *o*-Phenylenediamine Dihydrochloride (OPD, Product No. P 8287), 0.4 mg/ml in 0.05 M phosphate-citrate buffer, pH 5.0 containing 0.03% sodium perborate (Phosphate-Citrate Buffer Capsules with Sodium Perborate are available as Product No. P 4922).

Working Dilution

Working dilution should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

References

1. Wilson, M., and Nakane, P., In: Immunofluorescence and Related Staining Techniques, Elsevier/North Holland BioMedical Press, Amsterdam, p. 215 (1978).
2. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

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